

## MARINET II

Training course on:

# “Experimental modeling of wind actions and structural response”

*Organised by CRIACIV – Centro di Ricerca Interuniversitario di Aerodinamica delle Costruzioni e Ingegneria del Vento (University of Firenze, “Sapienza” Università di Roma, Padova, Perugia, Trieste, Chieti “G. D’ Annunzio”, IUAV Venezia, “Mediterranea” di Reggio Calabria), in collaboration with PIN Scrl*

Florence - Prato, June 25th – June 28th 2018

<b>Data</b>	<b>Orario</b>	<b>Ore</b>	<b>Corso</b>	<b>Speaker</b>
<b>25.06.2018</b>	15.30 – 16.00	0.5	Welcome & introduction	C.Borri
	16.00 – 18.00	2	Offshore wind energy potential in Mediterranean sea and the European strategies	L. Serri
<b>26.06.2018</b>	9.00 – 11.00	2	Review on random processes and stochastic dynamics Modelling and optimization of pressure taps	L. Facchini
	11.00 – 13.00	2	Atmospheric circulation and wind structure within the Boundary Layer	G. Bartoli
	15.00 – 17.00	2	Bluff body aerodynamics	A. M. Marra

<b>27.06.2018</b>	9.00 – 11.00	2	Flow-structure interaction and aeroelastic phenomena	C. Mannini
	11.00 – 13.00	2	Experimental wind tunnel testing and main measuring chains: pressures and forces, flow visualization and characterization, flow-structure interaction and aeroelastic phenomena	T.Massai
	14.00 – 16.00	2	An introduction to nonlinear wave actions on off-shore wind turbines	E. Marino
	16.00 – 17.00	1	Technical visit at Wind Tunnel Laboratory in Prato	G. Bartoli
<b>28.06.2018</b>	9.00 – 10.00	1	Generation of multi-correlated time series of turbulent wind flow by simulation in T.D. (WAWS, AR/MR, hybrid methods)	C. Borri
	10.00 – 12.00	2	Energy harvesting from flow-induced vibrations: overview and new experiments on flutter	L. Pigolotti
	12.00 – 13.00	1	Offshore wind energy in Europe: future perspectives	C. Borri / E. Marino

Please be aware that minor internal changes could occur prior to the begin of the course.